

Exonuclease I (*E. coli*)



Catalog: RK20531

Size: 1,500 U / 3,000 U / 15,000 U

Concentration: 20,000 U/ml

Components:

Exonuclease I (<i>E. coli</i>) (20,000 U/ml)	RM20519
10X Exonuclease I Reaction Buffer	RM20130

Product Description

Exonuclease I (*E. coli*) catalyzes the removal of nucleotides from single-stranded DNA in the 3' to 5' direction.

Exonuclease I degrades excess single-stranded primer oligonucleotides from a reaction mixture containing double-stranded extension products.

Product Source:

An *E. coli* strain that carries the cloned Exo I gene from *E. coli* NM554.

Unit Definition:

One unit is defined as the amount of enzyme that catalyzes the release of 10 nmol of acid-soluble nucleotide in a total reaction volume of 50 μ l in 30 minutes at 37°C in 1X Exonuclease I Reaction Buffer with 0.17 mg/ml single-stranded [³H]-DNA.

Reaction Conditions

1X Exonuclease I Reaction Buffer; Incubate at 37°C

1X Exonuclease I Reaction Buffer:

67 mM Glycine-KOH, 6.7 mM MgCl₂, 10 mM β -ME, pH 9.5 @ 25°C

Storage Temperature: -20°C

Storage Conditions:

10 mM Tris-HCl, 100 mM NaCl, 5 mM β -ME, 0.5 mM EDTA, 100 μ g/ml BSA, 50% Glycerol, pH 7.5 @ 25°C.

Heat Inactivation: 80°C for 20 min

Instructions

Enzymatic PCR Cleanup Protocol

1. Add 0.5 μ l of Exo I and 1 μ l of rSAP to 5 μ l of PCR product.
2. Incubate the mix at 37°C for 15 minutes.
3. Inactivate both enzymes at 80°C for 15 minutes.
4. PCR products are ready for downstream application.

QC Process:

- ◆ Purity is above 95% detected by SDS-PAGE.
- ◆ No endonucleases, non-specific DNase, and other RNases contamination.
- ◆ No residual host genomic DNA is detected by PCR.

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